

A REVIEW OF SWAINSON'S GENERA OF FISHES.

BY JOSEPH SWAIN.

In the year 1839, William Swainson published a general scheme of the classification of Reptiles, Amphibians and Fishes,¹ in which all the accepted genera of these groups are defined and a list of typical, or illustrative species is appended. Many new generic names are here introduced, the consideration of which forms the object of the present paper. I give a list of the new generic names proposed for Fishes by Swainson, with their equivalence in modern nomenclature, as I understand them. The list of species referred by Swainson to each genus is here repeated verbatim, the species considered by me as the type of each group being indicated by an asterisk (*). The whole work is singularly worthless as a contribution to science, and of interest only from the fact that the law of priority requires the adoption of many of these names.

It may be observed that Swainson possessed a very limited knowledge of Fishes. His definitions are seldom apt and very often incorrect, and but a small proportion of his genera can be received into the system. Of these few, scarcely any retain their original definition.

All difficult questions, involved in this paper, have been referred to Prof. D. S. Jordan, and to whom I am also indebted for other valuable suggestions, and for the use of his library. I am likewise indebted to Prof. C. H. Gilbert for kindly aid.

Cromileptes,² p. 201 = *Epinephelus* Bloch (about 1790).

C. altivelis Sw. Cuv., pl. 35. *myriaster* Rüp. (nec Cuv.), i. pl. 27, f. 1.
gigas,* *Ib.*, pl. 33.

C. miniatus, Rüp. i, pl. 26, f. 3. *fuscoguttatus*, *Ib.* f. 3,
hemistictos, *Ib.* f. 3.

¹The Natural History of Fishes, Amphibians & Reptiles, or Monocardian animals. By William Swainson, F. R. & F. L. S. * * * In two volumes. Vol. II. London. Printed for Longman, Orme, Brown, Green & Longmans, Paternoster Row, and John Taylor, Upper Gower Street, 1839.

²The name *Cromileptes* has been lately revived by Dr. Bleeker (Sys. Perca. Revis. Pars 1 a, 11, 1875), in place of his own *Serranichthys*, the type of which is *altivelis*. As, however, this species does not agree with the

- Cynichthys*, p. 201 = *Plectorhynchus*¹ Lacépède (1800).
*C. ilavo-purpuratus** Frey, Atl. pl. 57, f. 2. Bennet, Ceyl. Fishes, pl. 19 (fig. 42 c).
- Variola*, p. 202 = *Variola* Sw. (1839).
*V. longipinna** Sw. Rüp. i, pl. 26, f. 2 (*S. louti* Rüp.).
- Elastoma*, p. 202 = *Etelis*, C. & V. (1828).
*E. ocellatus** Sw. Cuv., pl. 32.
- Uriphæton*,² p. 202 = *Variola* Sw. (1839).
*U. microleptes** Sw. (Serranus phæton, Cuv. pl. 34).
- Rabdophorus*, p. 211 = *Chætodon* L. (1758), subg. *Rabdophorus* Sw.
*Ephippium** Sw. Cuv. pl. 174.
- Genicanthus*, p. 212 = *Holacanthus* Lac. (1803).
*Lamarekii** Cuv. pl. 184. tricolor, Bloch, pl. 426.
- Microcanthus*, p. 215 = *Chætodon*, L. (1758).
*G. strigatus** Cuv. pl. 170.
- Microgaster*, p. 216 = *Etroplus* C. & V. 1830.
*maculata** Cuv. pl. 136.
- Chrysiptera*, p. 216 = *Glyphidodon*, Lacépède (1802).
*azurea** Frey, Atl. pl. 64, fig. 3. Gamardii, Ib., fig. 4.
- Chætolabrus*, p. 216 = *Etroplus*, C. & V. (1830).
*Suratensis** Bloch., 217. *maculatus*, Ib., 427.
- Chrysolephus*, p. 221 = *Sparus*, L. (1758).
*C. gibbiceps** Cuv. pl. 147.
- Argyrops*, p. 221 = *Sparus*. L. (1758).
*Spinifer** Forsk. Russ. pl. 101.
- Calamus*, p. 221 = *Calamus* Sw. (1839).
*E. megacephalus** Sw. Cuv., pl. 152.
- Lithognathus*, p. 222 = *Lithognathus* Sw. (1839).
*L. capensis** Sw. Cuv., pl. 151.
- Nemipterus*, p. 223 = *Dentex* Cuv. (1817).
*N. filamentosus** Cuv., pl. 155.

diagnosis (not having a strong canine tooth on each side of lower jaw), and the other five species, which do so agree, belong to the prior genera *Epinephelus* and *Bodianus*, we should consider *Cromileptes* a synonym of *Epinephelus*.

¹ *Diagramma* Cuv., 1817.

² *Phæthonichthys* Bleeker. As has been shown by Dr. Vaillant, the *Serranus phæton* Cuv. and Val. was a made-up specimen, with the tail of a *Fistularia* skilfully fastened to the body of a Serranoid (probably a species of *Variola*).

- Thalassoma**, p. 224 = **Thalassoma** Sw. (= **Julis** Auct. *nec* typus).
T. purpurea,* Nob. Rüpp., Atl. pl. 6, fig. 1.
- Urichthys**, p. 224 = **Chilinus** Lac., (1802).
U. lunulatus,* Nob. Rüpp., Atl. pl. 6, fig. 1.
quinque-cinctus, Ib., ii, pl. 5, fig. 1.
- Crassilabrus**, p. 225 = **Chilinus** Lac., (1802).
C. undulatus,* Rüpp., Atl. pl. 6, fig. 2.
- Leptoscarus**, p. 226 = **Calliodon** Gronov. (1801).
L. vargiensis,* Quoy and Gaim, p. 288.
- Hemistoma**, p. 226 = **Scarus** Forskæl,¹ 1775.
H. reticulata, Sw. (**Scarus pepo*** Benn. Ceylon, pl. 28).
- Petronason**, p. 226 = **Scarus**.
P. psittacus*, Rüpp. pl. 20, 1. **flammiceps** Bennett, Ceylon,
 Rüppellii, Ib., pl. 21, 1. Fish, pl. 24.
 bicolor, Ib., pl. 21, 3. **niger** Rüpp. Atl. ii, pl. 8, 1.
 longicauda, Ib., pl. 21, 2. **collana**, Ib., fig. 2.
 viridis, Bl., pl. 222. **pulchellus**, Ib., fig. 3.
- Erychthys**, p. 226 = **Calliodon** Bloch and Schneider (1801).
E. croicensis,* Bl., pl. 221. **viridescens**, Rüpp., ii, 7,
 quinque-fasciatus, Benn. fig. 2.
 Ceylon, pl. 23, (fig. 60). **cæruleo-punctatus**, Ib., 3.
- Chlorurus**, p. 227 = **Scarus** Forskæl (1775).
C. gibbus, Rüpp., Atl. pl. 20, fig. 2.
- Sparisoma**, p. 227 = **Scarus** Forskæl, subg. **Sparisoma**² Swainson.
S. Abildgardii,* Bloch, pl. 259.
- Amphiscarus**, p. 227 = ? **Teuthis** L. (1766).
A. fuscus,* Griff., Cuv., pl. 35.
- Hemiulis**, p. 228 = **Chilio** Lac. (1802).
H. vittatus, Griff., Cuv., pl. 6, 1. **auratus**,* Frey, Atl. pl. 54, 2.
 guttatus, Bloch, pl. 357, 1. **melapterus**, Bloch, pl. 296, 2.
- Cynædus**,³ p. 229 = **Cynædus** Sw. (1839).
C. Tinca,* Yarr., i, 293. **rupestris**, Bloch, pl. 250, fig. 1.
 cornubicus, Ib., 296. **virens**? Ib., 251, fig. 2.
 gibbus, Ib., 298. **notatus**, Ib., 251, fig. 2.
 luseus, Ib., 300.

¹ = *Pseudoscarus* Bleeker, 1861.

² = *Scarus* Bleeker.

³ = *Crenilabrus* (not of Cuvier). Swainson observes: "M. Cuvier having expressly stated that the type of his genus *Crenilabrus* is the *Lutianus verres* of Bloch, I have so retained it, placing all the others, * * under the subgenus *Cynædus*." If this statement (which I am unable to verify) is correct, *Cynædus* Sw. must supersede *Crenilabrus*, which becomes a synonym of *Harpe*, Lac.

- Astronotus**,¹ p. 229 = **Astronotus** Sw. (1839).
A. ocellatus,* Spix, pl. 68.
- Thaliurus**,² p. 230 = **Thaliurus** Sw. (1839).
C. Blochii,* Bloch, pl. 260 (pl. ? 290).
- Labristoma**,³ p. 230 = **Pseudochromis** Rüpp. (1835).
L. olivacea,* Rüpp., ii, pl. 2, fig. 3. *flavivertex*, ii, pl. 2, fig. 4.
- Cichlasoma**,⁴ p. 230 = **Cichlasoma** Sw. (1839).
Labrus punctata,* Bloch, pl. 295, fig. 1.
- Eupemis**, p. 232 = **Chilio** Lac. (1802).
E. fusiformis,* Sw., Rüpp., Atl. ii, pl. 1, fig. 4.
- Chlorichthys**,⁵ p. 232 = **Thalassoma** Sw. (1839).
bifasciatus,* Bl., pl. 283. *Grayii*, Sw., Ind. Zool., ii, pl. 92, 1.
ornatus, Ib., pl. 280. *Hardwickii*, Bemm., pl. 12.
Braziliensis, Ib., pl. 280. *quadricolor*, Less., Atl. pl. 32, 1.
lunaris, Ib., pl. 281. *semicaruleus*, Rüpp., Atl. ii, pl. 3, fig. 1.
cæruleocephalus, Frey., Atl. *aygula*, Rüpp., Atl. i, pl. 6, 2.
 pl. 56, fig. 2.
- Iethycallus**,⁵ p. 232 = **Coris** Lac. (1800).
dimidiatus, Spix, pl. 53. *umbrostygma*, Rüpp., Atl. ii, pl. 3,
 chloropterus, Bl., pl. 288. fig. 2.
trimaculatus, Griff., pl. 45, fig. 2. *semipunctatus*,* Ib., pl. 3, fig. 3.
decussatus, Bemm., pl. 14. *cynocephalus*, Ib., pl. 286.
auramaculatus, Ib., 20. *julis*, Ib., pl. 287, fig. 1.
semidecorata, Less., Atl. pl. 35, *bivittatus*, Ib., pl. 284, fig. 1.
 fig. 2. *macrolepidatus*, Ib., fig. 2.
geoffroyii, Frey., Atl. pl. 56, fig. 3. *ornatus*, Linn., Tr. xii, pl. 27.
- Zyphothyca**, p. 239 = **Gempylus** Cuv. (1829).
*Z. coluber** Sw. Cuv. and Val., pl. 221.
- Zanclus**, p. 239 = **Histiophorus** Lac. (1802).
*Z. indicus** Nob. Cuv. and Val., pl. 229. Bloch, 343.
- Polycanthus**, p. 242 = **Spinachia** Fleming (1828).
*P. spinachia** Sw. Yarrell, i, 87. Bloch, pl. 53, fig. 1.

¹ = *Hygrogonus*, Günther, 1862.

² = *Hemigymnus*, Günther, 1862.

³ "The name of *Pseudo-chromis* is so objectionable, that I hope the learned naturalist who proposed it, will excuse me for offering another." (*Swainson.*)

⁴ = *Acara*, Heck, 1840 (in part).

⁵ *Chlorichthys* and *Iethycallus*, confused jumbles of species, may well be disposed of as synonyms of *Thalassoma* and *Coris*, respectively, although several other genera are represented in each.

Leiurus, p. 242 = **Gasterosteus** L. (1758).

aculeatus.* Yarr. i, 81. brachycentrus. Yarr. i, 82.

spinulosus. Ib. i, 83. pungitius. Ib. i, 85.

Chirostoma, p. 243 = **Menidia** Bonaparte (1836), subg. **Chirostoma**¹ Sw. (1839).

A. Humboldtiana.* Cuv. and Val., pl. 306,* (fig. 67).

Meladerma, p. 243 = **Elacate** Cuv. (1829).

M. nigerrima.* Russ., pl. 153. (Pedda. mottah.).

Platylepes, p. 247 = **Lactarius** Cuv. (1833).

P. lactaria.* Cuv., pl. 261.

Argylepes, p. 247 = ?

A. Indica. Russ., pl. 156. (Mitta Parah.).

Trachinus,² p. 247 = **Trachurus** Raf. (1810).

Alepes, p. 248 = ?

A. melanoptera* Sw. Russel, pl. 155. (Evori Parah.).

Zonichthys, p. 248 = **Seriola** Cuv. (1829), subg. **Zonichthys** Sw. (1839).

Z. fasciatus.* Bloch, pl. 341.

subcarinata. Russ., pl. 149.

Hamiltonia, p. 250 = **Hamiltonia** Sw., 1839 (= **Bogoda** Bleek.).

H. ovata.* Sw. Ham., fig. 37.

lata. Sw. Ib., fig. 37.

Platysomus, p. 250 = **Caranx** Lac. (1802), subg. **Vomer** Cuv. (1817).

Brownii.* Cuv., pl. 256.

Micropteryx Sw. App.

Spixii Sw. Spix., pl. 57.

Ctenodon, p. 255 = **Acanthurus** Forsk. (1775).

C. Rüppelii* Sw. Rüpp. 16 (fig. 74).

rubropunctatus. Rüpp. 15, 1.

lineatus Sw. Benn., pl. 2.

Cuvierii. C. V., pl. 289.

erythromelas. Less. Atl. 27, 1.

fuliginosus. Lesson 27, 2.

Zebрасoma, p. 256 = **Acanthurus** Forsk. (1775).

velifer* Sw. Rüpp. Atlas, pl. 15, fig. 2. Bl., pl. 427.

Callicanthus, p. 256 = **Monoceros** Bl. & Schn. (1801).

C. elegans.* (Aspisurus elegans.) Rüpp. Atl. 16, fig. 2 (fig. 75).

Xiphichthys, p. 259 = **Trichiurus** L. (1766).

Z. Russelii* Sw. Russ. i, p. 40 (p. ? 41).

Xiphasia,³ p. 259 = **Xiphasia** Sw.

Z. setifer* Sw. Russ., pl. 39.

¹ = *Heterognathus*, Girard, 1854.

² Evidently a misprint for *Trachurus*.

³ = *Nemophis*, Kaup., 1858 : = *Xiphogadus*, Günther, 1862.

Ornichthys, p. 262 = **Prionotus** Lac. (1802), subg. **Ornichthys** Sw. (1839).
Carolinensis (Carolinus). Bl. 352.
*punctatus** *Ib.*, pl. 353.

Macrochyrus, p. 264 = **Pterois** Cuv. (1817).
*miles** *Benn. Ceyl.*, pl. 9.

Pteroleptus, p. 264 = **Pterois** Cuv. (1817).
*P. longicauda** *Russ. ii*, pl. 133.

Pteropterus, p. 264 = **Pterois** Cuv. (1817).
*T. radiatus** *Cuv. and Val.*

Brachyrus, p. 264 = **Pterois** Cuv. (1817).
*zebra** *Cuv. iv*, p. 367.
brachypterus, *Ib. iv*, p. 368.

Pterichthys, p. 265 = **Apistus** Cuv. (1829).
*P. carinatus** *Cuv. iv.*, p. 395. *Israelitorum* *Cuv.*, *iv*, p. 396.
alatus. *Russ. No. 160, B.*

Platypterus,¹ p. 265 = **Tetraroge** Günther. (1860).
*tænianotus** *Cuv. Lac. iv.*, pl. 3, fig. 2. *longispinis*. *Ib. iv*, 408.
Bourgomvillii. *Ib. iv*, 411. *fusco-virens*. *Ib. iv*, 409.

Trichosomus,² p. 265, = **Prosopodasys** Cant. (1850).
*trachinoides** *Cuv. pl. 92, 1.*
dracæna. *Cuv. iv. p. 403.*

Gymnapistes,³ p. 265 = **Gymnapistes** Sw. (1839).
*marmoratus** *Griff. Cuv.*, pl. 22, fig. 3.
australis, *White's Voy.*, pl. 52, fig. 1.
Belangerii *Cuv.*, *iv.*, p. 412.
barbatus, *Ib.*, 413.
niger, *Ib.*, 415.

Buñichthys,⁴ p. 268 = **Synancia** Bl. & Schn. (1801).
*horrida** *Lac. ii*, pl. 17 2.
grossa. *Gray. In. Zool.*, *i*, pl. 97.

Trachicephalus,⁵ p. 268 = **Polycaulus** Günther. (1860).
*elongatus** *Griff. Cuv.*, pl. 8, f. 3.

¹ Preoccupied by several genera.

² Preoccupied by *Trichosoma* Rud. Verm., 1819.

³ = *Pentaroge* Günther, 1860. (See Bleeker, Mem. Scorpen, 7, 1876).
 As founded by Swainson, *Gymnapistes* contains species of *Pentaroge*,
Centropogon, *Tetraroge* and *Prosopodasys*, all genera posterior to Swainson.
Gymnapistes, may therefore, be properly substituted for *Pentaroge*.

⁴ = *Synancidium*, Müller, 1843.

⁵ Preoccupied by *Trachycephalus* Tsch. 1838 (a genus of Reptiles).

Ichthyoscopus, p. 269 = **Ichthyoscopus**¹ Sw. (1839.)

U. inernis,* Cuv. iii, pl. 65.

Fosteri, Ib. 318.

cirrhosus. Cuv., Ib. 314.

lævis. Ib. 319.

Enophrys, p. 271 = **Enophrys**² Sw. (1839).

E. claviger,* Cuv. and Val., pl. 79, fig. 2.

Gymnocanthus, p. 271 = **Gymnacanthus**³ Sw. (1839).

G. ventralis,* Cuv. and Val., iv, pl. 79, fig. 1.

Hippocephalus,⁴ p. 272 = **Hippocephalus** Sw. (1839).

*supercilius** Pall. Sp. Zool. vii, pl. 5.

decagonus Schn., pl. 27. *quadricornus*. Cuv. pl. 80.

Canthyrinchus, p. 272 = **Aspidophoroides** Lac. (1802).

C. monopterygius,* Cuv. and Val., pl. 169.

Blenitrachus,⁵ p. 274 = 0.

Eripecthys, p. 275 = **Salarias**, Cuv. (1817). subg. ? **Eripecthys** Sw. (1839).

Atlanticus, Cuv., ix, 322.

niger, Cuv., xi.

quadripinnis,* Rüpp., 28, 2.

frontalis, Ib., 328.

Sebæ, Ib., p. 323.

ruficauda, Ib., 328.

castaneus, Ib., 324.

quadricornis, Ib., 329.

fasciatus, Ib., 324.

variolatus? Ib., 346.

cyclops, Ib., 32.

frænatus, Ib., 342.

Rupiscartes, p. 275 = **Salarias** Cuv. (1817).

R. alticus,* C. V. xi, 337.

Cirripectes, p. 275 = **Salarias** Cuv. (1817).

C. variolosus,* C. V., xi, 317.

Chirolophis, p. 275 = **Chirolophus**⁶ Sw. (1839).

C. yarrellii,* C. V., xi, 218.

Clinetrachus, p. 276 = **Clinus** Cuv. (1817).

supercilius,* Bl., pl 168.

perspicillatus, C. V., xi, 372.

Blennophis, p. 276 = **Clinus**⁷ Cuv. (1817), subg. **Blennophis** Sw. (1839).

anguillaris,* (Clinus, do. C. V., xi, 390).

variabilis, Raff. (1810). (*Clinus argentatus*, C. V., xi, 354.)

¹ = *Anema* Günther, 1860, as restricted by Gill, Proc. Ac. Nat. Sci., Phila., 1861, 114.

² = *Aspicottus* Grd. (1854) = *Elaphocottus* Sauvage.

³ = *Phobetor* Kröyer, 1844.

⁴ Restricted by Gill, Proc. Ac. Nat. Sci., Phila., 1861, pp. 167, 259.

⁵ No species mentioned, and apparently none known at the time.

⁶ = *Blenniops* Nilsson, 1855; altered to *Carelophus* by Kröyer.

⁷ Not *Blennophis* Val. of later date (about 1840) = *Ophioblennius*, Gill, 1860.

Labrisomus, p. 277 = **Clinus** Cuv. (1817), subg. **Labrisomus** Sw. (1839).

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| L. gobio, C. V., xi, 395. | Peruvianus, C. V., xi, 383. |
| pectinifer,* Ib., 374. | microcirrhis, Ib., 384. |
| capillatus, Ib., 377. | ? geniguttatus, Ib., 86. |
| Delalandii, Ib., 378. | elegans, Ib., 388. |
| linearis, Ib., 371. | ? littoreus, Ib., 389. |
| variolosus, Ib., 381. | latipennis, Ib., 394. |

Ophisomus,¹ p. 277 = **Murænoides** Lac. (1800).

- O. gunnellus,* (Blennius gunnellus, Linn.), Yarrell, i, 239.

Ogichodes, p. 278 = **Gobioides**, Lac. (1800).

- G. Broussonetii,* Griff., Cuv., pl. 38, fig. 2.

Scartelaos, p. 279 = **Scartelaus**² Sw. (1839).

- Sc. viridis,* Ham., pl. 32, fig. 12.
 crysophthalmus. Ib., pl. 37, fig. 10.
 calliurus. Ib., pl. 5, fig. 10.

Rupellia, p. 281 = **Gobius** L. (1758).

- R. echinocephala.* Rüpp. Atl., i, pl. 34, fig. 3.

Amphichtbys, p. 282 = **Batrachus** L. (1758).

- rubigenes.* Sw. Appendix.

Salmophasia, p. 284 = **Chela** Buch. (1822).

- oblonga. Sw. Ham., fig. 76. (Cyp. bacaila *).
 elongata. Gray, Ind. Zool. (Cyp. cora.).

Chedrus, p. 285 = **Chedrus** Sw. (1839).

- C. Grayii* Sw. Gray, Ind. Zool., pl. 2, f. 3.

Esomus, p. 285 = **Esomus** Sw. (= **Nuria** C. & V. ? 1842).

- E. vittatus.* Sw. Ham., f. 88. (Daurua).

Clupisudis, p. 286 = **Clupisudis** Sw. (= **Heterotis** Ehrenberg, 1843).

- C. niloticus.* Rüpp., Fish of the Nile, i, pl. 3, f. 2.

Laurida ("Aristotle"), p. 287 = **Synodus** Gronov. (1801).

- L. Mediterranea Sw. (Vol. 1, p. 246, fig. 48).
 foetans.* Bl. 384, f. 2. semifasciata. Bl. 384, f. 1.
 tumbel. Ib., 430. conirostra. Spix, pl. 43.
 truncata. Spix, pl. 45. intermedia. Ib., 44.
 minuta Le Sueur. (Vol. 1, p. 247, fig. 50).

Triurus,³ p. 288 = **Saurida** Val. (1849).

- T. microcephalus.* Russell, pl. 171.

¹ = *Gunnellus* C. & V. (1817), rejected because of barbarous origin.

² = *Boleops* Gill (1863), *vide* Bleeker, Esq. Syst. Nat. Gobioides, 40, 1874.

³ Preoccupied by *Triurus* Lacép. 1800.

Mormyrnynchus, p. 291 = *Schizodon* Agass. (1829).

*M. Gronoveii** Sw. Gronov. Zooph., pl. 7, f. 2.

Trichosoma,¹ p. 292 = *Thrissa* Cuv. (1817).

*Tr. Hamiltonii** Gray, Ind. Zool., i, pl. 85, f. 3.

Setipinna, p. 292 = *Setipinna* Sw. (1839).

truncata Ham., p. 241, f. 72. *megalura* Sw., Ib., p. 240. (*Cl. phasa*.*)

Platygaster,² p. 294 = *Pellona* Cuv. (1817).

*Pl. Africanus** Bl. 407.

parva, Gray, Ind. Zool., ii.

megalopterus, Russ., pl. 191.

pl. f. 3.

affinis, Gray, Ind. Zool.

Indicus, Russ., pl. 192.

Cypsilurus, p. 296 = *Cypselurus* Sw. (1839).

*C. Nuttallii** Le Sueur. Am. Tr. ii, pl. 4, fig. 1.

appendiculatus. Wood. Ib., iv, p. 283.

Leptodes, p. 298 = *Chauliodus* Bl. Schn. (1801).

*L. sloanii** Sch., pl. 85.

L. Siculus. Sw. App.

Tilesia, p. 300 = *Gadus* L. (1758), subg. *Tilesia* Sw. (1839).

*T. gracilis** Til. Piscium, i, tab. 18.

Lepidion,³ p. 300 = *Haloporphyrus* Günther (1862).

*L. rubescens** (*Gadus lepidion* Risso), xi, fig. 40, p. 118.

Cephus, p. 300 = *Gadus* Linn. (1758).

*C. macrocephalus** Til. Pisc., i, tab. 19.

Psetta,⁴ p. 302 = *Bothus* Raf. (1810) subg. *Psetta* Sw.

*P. maximus** Bloch, pl. 49.

Platophrys, p. 302 = *Platophrys*⁵ Sw. (1839).

*P. ocellatus** Spix and Agassiz, pl. 46.

¹ Preoccupied by *Trichosomus* Sw., p. 265, as well as *Trichosomus* Rud. Verm., 1817.

² Preoccupied by *Platygaster* Latr., Hym., 1809.

³ Preoccupied by *Lepidea* Sav., Verm., 1817.

⁴ The generic names *Bothus*, Raf. (1810), *Scophthalmus*, Raf. (1810), and *Rhombus*, Cuvier (1817, not of Lac. 1802), were alike based on *Pleuronectes rhombus*, L., and *Pl. maximus*, L., in all cases more particularly on the former, which may be taken as the type of each. If the *Pl. maximus*, be distinguished as the type of a genus or subgenus, it may stand as *Psetta*, Sw. *Lophopsetta*, Gill, is strictly synonymous with *Bothus*, its type being extremely closely allied to *Bothus rhombus*.

⁵ = *Rhomboidichthys* Bleeker (1856).

Brachirus, p. 303 = **Euryglossa**¹ Kamp.

plagiusa, Linn.

Commersemi, Russ., No. 70.

orientalis,* Sch., 157.

jerreus, Russ., No. 71.

zebra, Bloch, pl. 187.

Pan, Hamil., pl. 14, fig. 42.

Hoplisoma, p. 304 = **Corydoras** Lac. (1803).

H. punctata,* Bloch, 377, fig. 2.

Sturisoma, p. 304 = **Loricaria** L. (1766), subg. **Sturisoma**, Sw.

S. rostrata,* Spix and Agassiz, pl. 3.

Felichthys,² p. 305 = **Felichthys** Sw. (1839).

F. filamentosus, Bl., pl. 365. nodosus,* Bl. 368, fig. 1.

Cyclopium, p. 305 = **Cyclopium**³ Sw. (1839).C. humboldtii, Sw. (*Pimelodus cyclopium*,* *Auct.*)**Silonia**⁴ p. 305 = **Silondia** Sw. (1839).

S. lurida,* Ham., p. 160, 7, fig. 50. diaphina, Ib., p. 162.

Pachypterus,⁵ p. 306 = **Pseudentropius** Blkr. (1863).

P. Atherinoides,* Bl. 371, f. 1. punctatus, Ham., p. 196, f. 64.

luridus, Ham., p. 163, f. 62. melanurus, Ib., (*Murius*, Ham), p.

trifasciatus, Ib., p. 180, f. 59. 195.

Clupisoma, p. 306 = **Clupisoma**⁶ Sw. (1839).

C. argenata,* Ham., 156, pl. 21, fig. 50.

Pusichthys, p. 307 = **Schilb**⁷ Cuv. (1817).

P. uranoscopus,* Rüpp., Egypt., pl. 1, fig. 1, a, b.

Cotylephorus, p. 308 = **Aspredo**⁷ L. (1758).C. Blochii,* Sw. (*Platys cotylephorus*, Bl. 372).**Pteronotus**, p. 309 = **Pimelodus** Lac. (1803).

P. 5-tentaculatus,* Sp. and Agassiz, pl. 11.

Acoura, p. 310 = **Nemachilus** Von Hasselt. (1823).

C. obscura,* Hamilt., p. 357. argentata, Ib., 358, No. 10.

No. 9 (aberrant). cinerea, Ib., 359, No. 12.

¹ = *Euryglossa*, Kamp.; *plagiusa*, the first species mentioned, does not agree with the diagnosis, not having "two pectoral fins." *Brachirus* is preoccupied by *Brachyrus*, Swainson, both names being abridgments of *Brachychirus*.

² = *Auchenipterus*. Cuv. 1840.

³ = *Stygogenes*, Gthr. (1864).

⁴ Misprint for *Silondia* = (*Silundia*, C. & V., 1840).

⁵ Preoccupied by *Pachypterus*, Sol., Col. 1833.

⁶ = *Schilbeichthys*, Bleeker, 1858.

⁷ = *Platystacus*, Bloch, 1801.

Canthophrys, p. 310 = **Botia** Gray (1831).

- C. albescens*,* Ham., Cob. No. 3. olivaceus, Ib., No. 8.
rubiginosus, Ib., No. 6. vittatus, Ib., No. 4 (aberr.).

Diacantha, p. 310 = **Botia** Gray (1831).

- C. zebra*,* Hamilt., pl. 11, f. 96. flavicauda, pl. 29, f. 95.

Somileptes, p. 311 = **Cobitis** L. (1758).

- S. bispinosa*,* Hamilt., p. 351. unispina, Ib., No. 1, p. 350.

Platysqualus, p. 318 = **Sphyrna** Raf. (1810).

- S. tiburo*,* Linn., Russ.,¹ pl. 12, fig. 2.

Pterocephala, p. 321 = **Dicerobatis** Blainville (1828).

- P. Giorna*,* Lac., v, pl. 20, 3.

Tetrosomus, p. 323 = **Ostracion** L. (1758).

- T. turritus*,* Bl., pl. 136.

Lactophrys, p. 324 = **Ostracion** L. (1758), subg. **Lactophrys** Sw. (1839).

- L. trigonus*,* Bl., pl. 35 (? 135). cornutus, Bl., 133.
bicaudalis, Ib., 132. quadricornus, Ib., 134.

Rhinesomus, p. 324 = **Ostracion** L. (1758).

- R. triqueter*,* Bloch, pl. 130. concatatus, Ib., pl. 131.

Platycaanthus, p. 324 = **Aracana** Gray (1838).

- P. auratus*,* Shaw, Nat. Miss., pl. 338.

Rhinecaanthus, p. 325 = **Balistes** (1758).

- ornatissimus*,* Lesson, Atl., 10, 1. conspicillum, Ib., pl. 9, 1.
lineatus, Benn., Cey., pl. 10. amboynensis, In. Z., 8, 3.

Melichthys, p. 325 = **Balistes** L. (1758), subg. **Melichthys** Sw.

- ringens*,* Bl., pl. 152, 2. marginatus, Ib. 2, pl. 15, 1.
albicaudatus, Rüpp. 2, 16, 1. Praslinensis, Frey, Atl., 46, 1.

Canthidermis, p. 325 = **Balistes** L. (1758), subg. **Canthidermis** Sw.

- angulosus*,* Frey, Zool., p. 210. Gaimardii, Sw., Frey, Zool., p. 209.
oculatus, Ind. Zool., pl. 90, fig. 1.

Chalisoma, p. 325 = **Balistes** L. (1758).

- C. pulcherrima*,* Lesson, Atl., pl. 9, fig. 2. velata, Bl. 150.

Leiurus,² p. 326 = **Balistes** L. (1758).

- L. macrophthalmus*,* Russ., p. 22.
radiatus, Bowdich, Mad., pl. 17, fig. 45.
Russellii, Ib., pl. 23.

Pachynathus, p. 326 = **Triacanthus** Cuv. (1829).

- P. triangularis*,* Russell, pl. 20.

¹ Said to be the young of *Sphyrna tudes* (Val.) M. & H.

² Preoccupied by *Leiurus* Sw., p. 242.

- Psilocephalus**,¹ p. 327 = **Psilocephalus** Sw. (1839).
P. barbatus,* Gray, Ind. Zool.
- Cantherines**, p. 327 = **Monacanthus** Cuv. (1817), subg. **Cantherines**² Sw. (1839).
C. nasutus,* Frey. Zool., p. 214.
- Chætodermis**, p. 327 = **Monacanthus** Cuv. (1817), subg. **Chætodermis** Sw.
C. spinosissimus,* Frey. Atl. pl. 45, fig. 3-8.
pennicilligerus, Cuv., Règ., An. pl. 12, fig. 3.
- Trichoderma**, p. 328 = **Monacanthus** Cuv. (1817), subg. **Amanses** Gray (1831-5).
T. scapus,* Lac. 1, pl. 18, f. 3. *histris*, Sw., Gray, Ind. Zool.
- Leisomus**, p. 328 = **Tetrodon** L. (1758).
T. lævissimus,* Sch., marmoratus, Hamilt., pl. 18, fig. 3.
- Lagocephalus**, p. 328 = **Lagocephalus** Sw. (1839).
L. stellatus,* Bl., pl. 143. *Pennantii*, Yarrall, ii, 347 (? 457).
- Cirrhisomus** p. 328 = **Tetrodon**³ L. (1758).
C. Sprengleri,* Bloch, pl. 144.
- Pilonotus**, p. 328 = **Pilonotus**⁴ Sw. (1839).
P. rostratus,* Bl. pl. 146. *Electricus*, Ph. Tr. 76, pl. 3.
- Molacanthus**, p. 329 = **Molacanthus** Sw. (1839).
M. Pallasii,* Sw. Pall. Spec. Zool. pl. 4.
- Astrocanthus**, p. 331 = **Halientæa** Val. (1837).
A. stellatus,* Sw., Lac. i, pl. xi, figs. 2, 3.
- Phyllopteryx**, p. 332 = **Phyllopteryx** Sw. (1839).
P. foliatus,* Sw. (fig. 109).
- Solegnathus**, p. 333 = **Solenognathus** Sw. (1839).
S. hardwickii,* Gray, Ind. Zool., i, pl. 89, f. 3.
- Ophisoma**,⁵ p. 334 = **Congromuræna** Kaup. (1856).
obtusa,* Sw., Appendix. *acuta*, Sw., App.
- Leptognathus**, p. 334 = **Ophichthys** Ahl. (1789), subg. **Leptognathus**.
L. oxyrhynchus,* Sw., app. (vol. 1, p. 221, fig. 42).
- Pterurus**,⁶ p. 334 = **Moringua** Gray (1831).
P. maculatus,* Ham., p. 25. *Tripurora*, Russ. i, No. 34.
Hardwickii, Gray, Ind. Zool.
- Pachyurus**, p. 335 = **Moringua** Gray, (1831).
P. linearis,* Gray, Ind. Zool. i, pl. 95, fig. 3.

¹ = *Anacanthus* Gray, 1831, not of Ehrenberg, 1817.

² = *Liononacanthus* Bleeker, 1866.

³ = *Chilichthys* Müll., 1839.

⁴ = *Anosmius* Ptrs., 1855.

⁵ Preoccupied by *Ophisomus* Sw., p. 277.

⁶ = *Ratabouro* Gray, 1831-42.

Ophichthys,¹ p. 336 = **Amphipnous** Müll. (1839).

O. punctatus,* Ham., pl. 16, fig. 4 (*Cuchia*).

Rupisuga, p. 339 = **Lepadogaster** Gouan (1770).

L. nicensis,* Sw., Risso pl. 4, fig. 10 (? fig. 9).

In his "natural arrangement" or analytical key to the groups of Fishes, Swainson introduces several names of genera of which no examples are given and which do not occur further on in the body of the text. They are here given with their equivalence found in the text:—

1. **Cichlaurus**, p. 173 = **Cichlasoma** Sw.
2. **Pteropterus**, p. 180 = **Brachyrus** Sw.
3. **Gobileptes**, p. 183 (not in text).
4. **Psilosomus**, p. 183 = **Amblyopus** Cuv.
5. **Scrophicephalus**, p. 187 (not in text).
6. **Breviceps**, p. 189 = **Felichthys** Sw.
7. **Leiodon**, p. 194 = **Leisomus** Sw.
8. **Canthigaster**, p. 194 = **Psilonotus** Sw.

These names are, in my opinion, unworthy of attention, as in no case would it be possible to understand their author's meaning, were it not for the fuller description given in the text.

¹ Preoccupied by *Ophichthys*, Ahl. (1789).